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TITLE : THERMAL RECORDING PAPER

ABSTRACT : PURPOSE: To enhance dot reproduction properties and suppress curling after printing, by producing a thermal recording paper by providing a thermal color forming layer on a paper base obtained by applying a cellulose-reactive resin to the surface of a raw paper to which surface sizing is performed.

CONSTITUTION: A cellulose-reactive resin such as a glyoxal resin, an ethylene- urea resin, a melamine-formaldehyde resin and a urea-formaldehyde resin is used as a surface size. After the surface size is applied to the surface of a raw paper, the paper is dried by a heat treatment at or above 100°C. The amount of the surface size used, in terms of the amount of the size applied to both sides of the raw paper, is preferably 0.3~3g/m². A color former and a color developer are separately dispersed in a solution of a water-soluble high molecular weight compound by a ball mill or the like to prepare a coating liquid. The coating liquid is applied to the raw paper after surface sizing, and the applied liquid is dried to provide a thermal color forming layer, thereby producing a thermal recording paper.

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